

## **MULTI-THREAD GRAPHICS PROCESSING SYSTEM**

### **ABSTRACT**

**[00040]** The present invention includes a multi-thread graphics processing system and method thereof including a reservation station having a plurality of command threads stored therein. The system and method further includes an arbiter operably coupled to the reservation station such that the arbiter retrieves a first command thread of the plurality of command threads stored therein such that the arbiter receives the command thread and thereupon provides the command thread to a command processing engine. The system and method further includes the command processing engine coupled to receive the first command thread from the arbiter such that the command processor may perform at least one processing command from the command thread. Whereupon, a command processing engine provides the first command thread back to the associated reservation station.